

PATENT ABSTRACTS OF JAPAN

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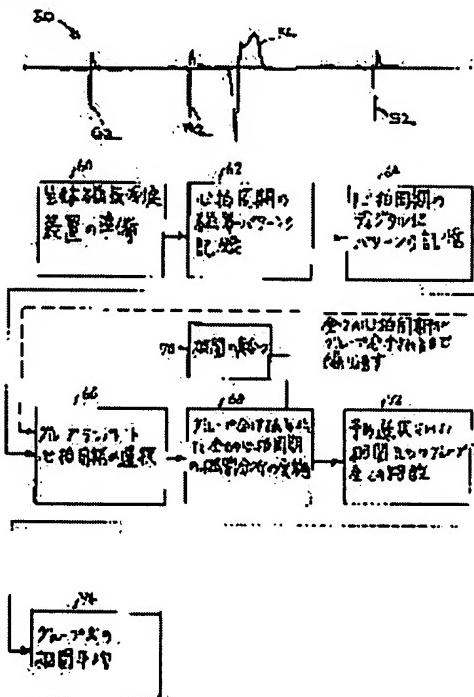
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(54) METHOD FOR MEASURING PHYSIOLOGICAL FUNCTION OF HEART

(57)Abstract:

PURPOSE: To classify the heart pulse periods in time series according to the degree of correlation between each heart pulse period and template heart pulse period, by detecting signals corresponding to multiple heart periods in time series.

CONSTITUTION: One group is of a type, in which an element number is large and heart pulse periods are produced frequently. For forming a first group, a template is randomly selected from among all elements of a heart pulse period pattern 50. A correlation analysis of all the heart pulse periods not grouped and the template heart pulse periods are carried out. The results are compared with a preselected correlation degree that is obtained by using the correlation degree of the heart pulse period evaluated with use of the template heart pulse period as an input. If the degree of correlation is approximately identical to at least the preselected degree of correlation, the heart pulse period during evaluation is put into a group relative to the specified template heart pulse period. If the degree of correlation is lower than the preselected degree of correlation, the heart pulse period during evaluation is returned to the element of the pattern 50 not grouped and analyzed in the next repeated operation.



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